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1 Scheduling of Soft Real-Time Systems for Context-Aware Applications ☐
Jennifer L. Wong, Weiping Liao, Fei Li, Lei He, Miodrag Potkonjak
March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(206.42 KB)   Additional Information: full citation, abstract

> Context-aware applications pose new challenges, including a need for new computational models, uncertainty management, and efficient optimization under uncertainty. Uncertainty can arise at two levels: multiple and single tasks. When a mobile user changes environments, the context changes resulting in the possibility of the user requesting tasks which are specific for the new environment. However, as the user moves these requested tasks may no longer be context relevant. Additionally, the runtim ...

2 Pervasive Documentation Systems I: Information fragments for a pervasive world ☐
◈ Russell Beale
September 2005 **Proceedings of the 23rd annual international conference on Design of communication: documenting & designing for pervasive information SIGDOC '05**
Publisher: ACM Press
Full text available: 📄 pdf(1.20 MB)   Additional Information: full citation, abstract, references, index terms

> Is the second paragraph dead? Technology and users are tending to create and consume information in ever decreasing chunks, forcing content creators to create shorter fragments of text and other media. This paper examines this phenomenon, and provides examples of where and why this is happening. It examines the role of metadata, and how this can be used to provide effective, personalized communication in a fragmented digital world.
>
> **Keywords:** blogs, email, fragmentation, information design, learning objects, metadata, personal communication, pervasive space, web sites

3 Making use of document standards and models: An environment for maintaining ☐
◈ **computation dependency in XML documents**
Dongxi Liu, Zhenjiang Hu, Masato Takeichi
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**
Publisher: ACM Press
Full text available: 📄 pdf(236.83 KB)   Additional Information: full citation, abstract, references, index terms

> In the domain of XML authoring, there have been many tools to help users to edit XML documents. These tools make it easier to produce complex documents by using such

technologies as syntax-directed or presentation-oriented editing, etc. However, when an XML document contains data with some computation dependency among them, these tools cannot free users from the burden of maintaining this dependency relationship. By computation dependency, we mean that some data are gotten by computing from othe ...

Keywords: XML, computation dependency, functional programming, lazy evaluation, programmable structured document

4 U-commerce & u-business: Requirements elicitation for the design of context-aware applications in a ubiquitous environment
Dan Hong, Dickson K. W. Chiu, Vincent Y. Shen
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**
Publisher: ACM Press
Full text available: pdf(358.59 KB)   Additional Information: full citation, abstract, references, index terms

With the invention of new interaction devices and the requirements for ubiquitous access to application systems, user's interactions have moved beyond the desktop and evolved into a trend of ongoing development. The context in which the application is being used becomes an integral part of the activity carried out with the system. The inclusion of context-awareness provides convenience and efficiency to users for their ubiquitous access. Traditional human-computer interface (HCI) theories are no ...

Keywords: HCI, context, context-aware application, design issues, tourist system

5 Modeling location-based services with subject spaces
Hubert Ka Yau Leung, Ioana Burcea, Hans-Amo Jacobsen
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(248.48 KB)   Additional Information: full citation, abstract, references, index terms

The advance in wireless networks and in positioning systems has led to the development of a new generation of mobile applications: location-based services (LBS). LBS offer highly personalized services to users of mobile devices such as telephones, pagers, and PDAs (mobile users) based on their locations, user profiles and context information. The publish/subscribe paradigm is an information dissemination model for loosely-coupled distributed applications, and is appropriate for the implementatio ...

6 A flexible environment for program development based on a symbolic interpreter
P. Asirelli, P. Degano, G. Levi, A. Martèlli, U. Montanari, G. Pacini, F. Sirovich, F. Turini
September 1979 **Proceedings of the 4th international conference on Software engineering**
Publisher: IEEE Press
Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, citings, index terms

The paper describes an interactive programming system which provides an integrated collection of tools for dealing with the whole process of program development. The pivot tool, the symbolic interpreter, may cover a broad range of applications, from testing to correctness Proving. The aspects in which the symbolic interpreter differs from a conventional interpreter, i.e. the possibility of handling nondeterministic branching at choice points and the presence of a system for manipulating sym ...

7 Look, Ma, My Homepage is Mobile!
Roger Kehr, Andreas Zeidler
January 2000 **Personal and Ubiquitous Computing**, Volume 4 Issue 4

Publisher: Springer-Verlag
Full text available: pdf(120.21 KB)   Additional Information: full citation, abstract

Much of the ongoing research in ubiquitous computing has concentrated on providing
context information, e.g. location information, to the level of services and applications.
Typically, mobile clients obtain location information from their environment which is used
to provide "locally optimal" services. In contrast, it may be of interest to obtain
information about the current context a mobile user or device is in, from a client
somewhere on the Web, i.e. to use the mobile device as a ...

8   PRAVTA---a light-weight mobile awareness client

Tom Gross
April 2001 **ACM SIGGROUP Bulletin**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(1.28 MB)   Additional Information: full citation, abstract, references, index terms

Despite huge progress in information and communication technology it is often difficult to
spontaneously contact persons who are at other locations. Often important information
about the persons at other sites is missing. Users need to know if the potential
communication or cooperation partners are present in the system, if they are available,
how busy they are, and so forth. Furthermore, users need this information independently
of their current location and adapted to their current context. In ...

9   Programming on an already full brain

Christopher Fry
April 1997 **Communications of the ACM**, Volume 40 Issue 4
Publisher: ACM Press
Full text available: pdf(742.40 KB)   Additional Information: full citation, references, citings, index terms,
review

10 A generic platform for addressing the multimodal challenge

Laurence Nigay, Joëlle Coutaz
May 1995 **Proceedings of the SIGCHI conference on Human factors in computing
systems**
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: html(37.86 KB)   Additional Information: full citation, references, citings, index terms

11 ITS and user interface consistency: a response to Grudin

Charles Wiecha
January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1
Publisher: ACM Press
Full text available: pdf(164.31 KB)   Additional Information: full citation, index terms

12 Eclipse as a platform for research on interruption management in software
development

Uri Dekel, Steven Ross
October 2004 **Proceedings of the 2004 OOPSLA workshop on eclipse technology
eXchange**
Publisher: ACM Press
Full text available: pdf(63.26 KB)   Additional Information: full citation, abstract, references

Automated tools for mediating incoming interruptions are necessary in order to balance
the concentration required for software development with the need to collaborate and
absorb information. At present, there is no design knowledge for building such tools for
programmers. The abundant literature on the general problem of interruptions and

awareness does not address the unique characteristics of software development, and the few studies which do are restricted to simplified tasks or environments ...

13 <u>Session 4: Context awareness for group interaction support</u>

Alois Ferscha, Clemens Holzmann, Stefan Oppl

October 2004 **Proceedings of the second international workshop on Mobility management & wireless access protocols**

Publisher: ACM Press

Full text available: pdf(363.86 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present an implemented system for supporting group interaction in mobile distributed computing environments. First, an introduction to context computing and a motivation for using contextual information to facilitate group interaction is given. We then present the architecture of our system, which consists of two parts: a subsystem for location sensing that acquires information about the location of users as well as spatial proximities between them, and one for the actual conte ...

Keywords: context awareness, group interaction, location sensing, sensor fusion

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modeling "providing information" "current conte   Search   Advanced Search
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Soliciting information based on a computer user's context - Patent ...
The method of claim 46 wherein the characterizing of the **current context of the user**
includes dynamically generating a **model** of the context of the user ...
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the **current context of the user**. This mechanism is good. for closed environments such as
a ... flexible Content and context-based Access Control **Model** for ...
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the **current context of the user**. This ...
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servers **providing information**-service for the nurses. Figure 4. shows a **model** of the real
world, ie, Saskatoon District Health, ...
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EP1287444
6 is a diagram illustrating linear priorities **models** in accordance with an ... to yield an output
variable (s), namely, the **current context of the user**. ...
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EP1381185
... the context analyzer determines the **current context of the user**, ... 9 is a diagram
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current context of the user issuing the command ...
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of ... [11] the author discusses the issue of generic **model** ...
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better for attention getting than **providing Information**. ...
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United States Patent Application: 0040143636
... and more particularly to a system and method **providing information** ... 6 is a diagram
illustrating linear Priorities **models** in accordance with an aspect ...

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United States Patent Application: 0050091269
A one-at-a-time programming **model** is a **model** that is most natural to developers ... to
yield an output variable(s), namely, the **current context of the user.** ...
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aiding diagnosis, and 3) **providing information** on health concerns. ... the entity that
models the **current context of the user** consisting of environmental ...
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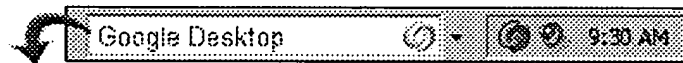### [PDF] ext4-www.ics.forth.gr/isl/publications/paperlink/p...
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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	23040	715/736-748;706/10,11,14,21; 45,47,48,55,60,61;700/28-32,65; 66;709/203;217;223,224.ccls.	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:21
L2	4368	1 and (wearable portable mobile) with (comput$4 device)	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:22
L3	2466	2 and (send$4 transmit$4 transfer$4 provid$4 presenting) with (value information) with (user mobile client)	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:23
L4	190	3 and (character$5 model$5 analy$5) with (context state situation condition) with (client user mobile portable)	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:24
L5	125	4 and receiv$4 with (value information) same (server mediator proxy source)	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:25
L6	23	5 and determin$4 same (source originat$4 cabab$4 ability) same (send$4 supply$4) same information	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:27
L7	40	5 and determin$4 same (source server proxy originat$4 cabab$4 ability) same (send$4 supply$4) same information	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:27
L8	1	7 and receiv$4 same context$4 near4 attribute with value not abbott.in.	US-PGPUB ; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/02/24 13:28

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L12	4	((supply$4 presenting delivering sending) with values with context$4 near attributes near5 modeled near3 context).clm.	US-PGPUB	OR	ON	2006/02/24 13:34
L13	0	12 and (obtain$4 same additional near information same describes with context$4).clm.	US-PGPUB	OR	ON	2006/02/24 13:35
L14	0	12 and (obtain$4 same additional near3 information same describe$3 with context$4).clm.	US-PGPUB	OR	ON	2006/02/24 13:36
L15	0	(determin$4 same resource same other near5 (servers proxy mediators) and value with supply$4 with context$4 near model$4).clm.	US-PGPUB	OR	ON	2006/02/24 13:37